

## Patent Abstracts of Japan

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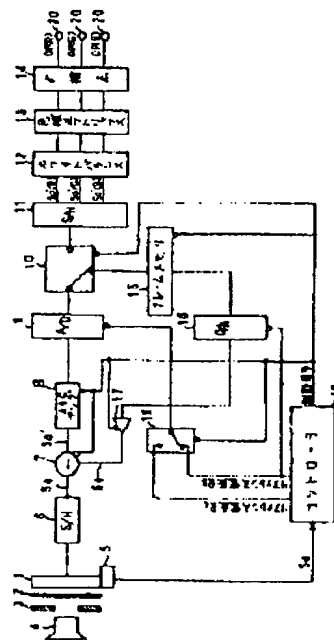
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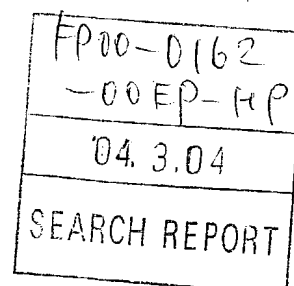
TITLE : ANALOG/DIGITAL CONVERSION  
SYSTEM



ABSTRACT : PURPOSE: To digitize an analog signal with high accuracy by varying a reference voltage in response to a level of a signal in the case of digitizing the analog signal.

CONSTITUTION: A dark current signal SD is read from a frame memory 15 synchronously with an output of a picture signal  $SO_1$  under the control of a controller 18. The signal SD is inputted to a D/A converter 16, in which the signal is converted into an analog signal by using a reference voltage RB used for A/D conversion. Since the dark current signal SD is digitized with high accuracy, the digital signal is reproduced into an analog signal more accurately. Then an output characteristic of the dark current signal SD depending on temperature is controlled by a control amplifier 17 and the result is inputted to a computing element 7. The computing element 7 subtracts the signal SD converted again into an analog signal from the picture signal  $SO_1$  and an obtained picture signal  $SO_2$  is inputted to an A/D converter 9. The converter 9 uses a reference voltage RA to digitize the picture signal  $SO_2$ . R, G, B signals are separated from the picture signal  $SO_2$  by a sample-and-hold circuit 11 and they are transferred to other device from an output terminal 20 via a white balance circuit 12, a color correction matrix 13 and a gamma correction circuit 14.

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